

CAPCELL PAK SEC Series

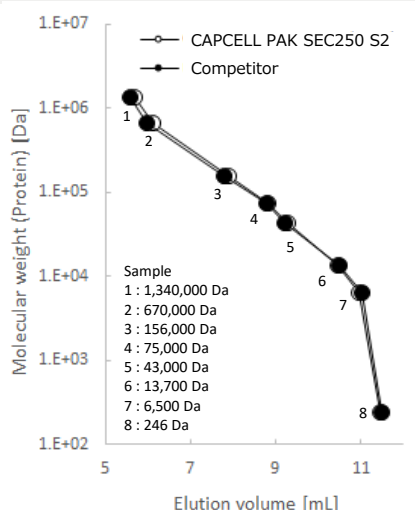
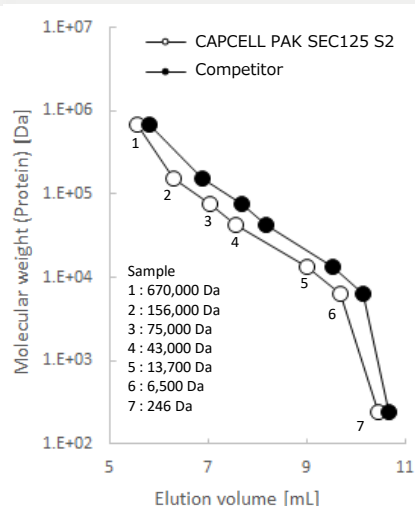
High-Performance Size Exclusion Chromatography Columns



Specification

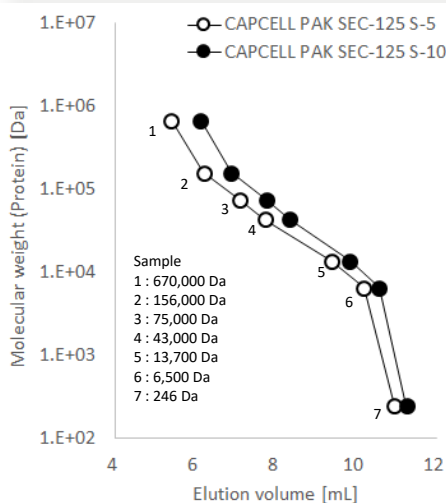
Product	Pore Size [Å]	Particle Size [μm]	Calibration Range	pH Stability	Max. Pressure [MPa]
CAPCELL PAK SEC125 S-2	125	2	5–150 kDa (Proteins)	2–7.5	35
CAPCELL PAK SEC125 S-5	125	5	5–150 kDa (Proteins)	2–7.5	8
CAPCELL PAK SEC125 S-10	125	10	5–150 kDa (Proteins)	2–7.5	2
CAPCELL PAK SEC250 S-2	250	2	10–500 kDa (Proteins)	2–7.5	35
CAPCELL PAK SEC250 S-5	250	5	10–500 kDa (Proteins)	2–7.5	8
CAPCELL PAK SEC250 S-10	250	10	10–500 kDa (Proteins)	2–7.5	2
CAPCELL PAK SEC1000 S-5	1000	5	100–7,500 kDa (Proteins) 30–3,000 nt (ssRNA)	2–7.5	8

Calibration curve

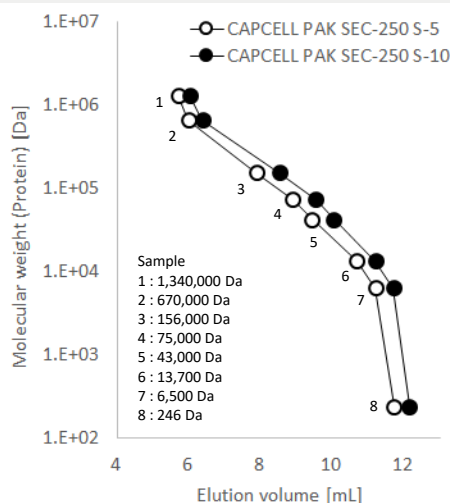


- Enhanced Separation Performance
- Excellent Lot-to-Lot Reproducibility
- Wide Molecular Weight Coverage
- High Resolution with Small Particle size

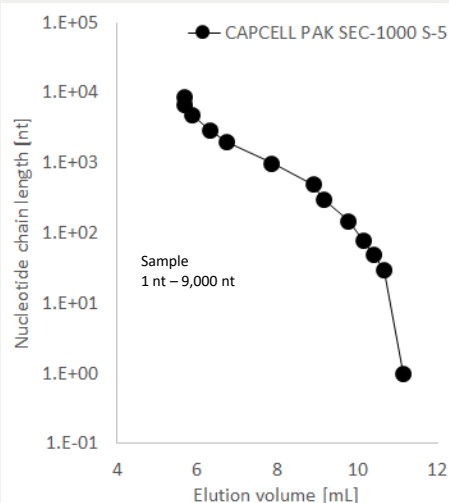
Column size : 4.6 mm i.d. x 300 mm
 Mobile phase : 100 mmol/L Phosphate buffer
 + 0.3 mol/L NaCl (pH 7.0)
 Flow rate : 0.35 mL/min
 Temperature : 25 °C
 Detection : UV 220 nm
 Inj. vol. : 10 μL



Column size : 7.8 mm i.d. x 300 mm
 Mobile phase : 100 mmol/L Phosphate buffer
 + 0.3 mol/L NaCl (pH 7.0)
 Flow rate : 1 mL/min
 Temperature : 25 °C
 Detection : UV 220 nm
 Inj. vol. : 20 μL

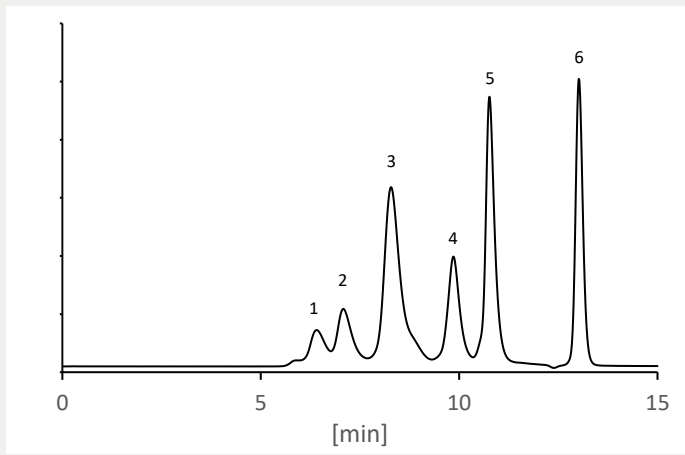


Column size : 7.8 mm i.d. x 300 mm
 Mobile phase : 100 mmol/L Phosphate buffer
 + 0.3 mol/L NaCl (pH 7.0)
 Flow rate : 1 mL/min
 Temperature : 25 °C
 Detection : UV 220 nm
 Inj. vol. : 20 μL



Column size : 7.8 mm i.d. x 300 mm
 Mobile phase : 20 mmol/L Phosphate buffer
 Flow rate : 0.3 mL/min
 Temperature : 60 °C
 Detection : UV 260 nm

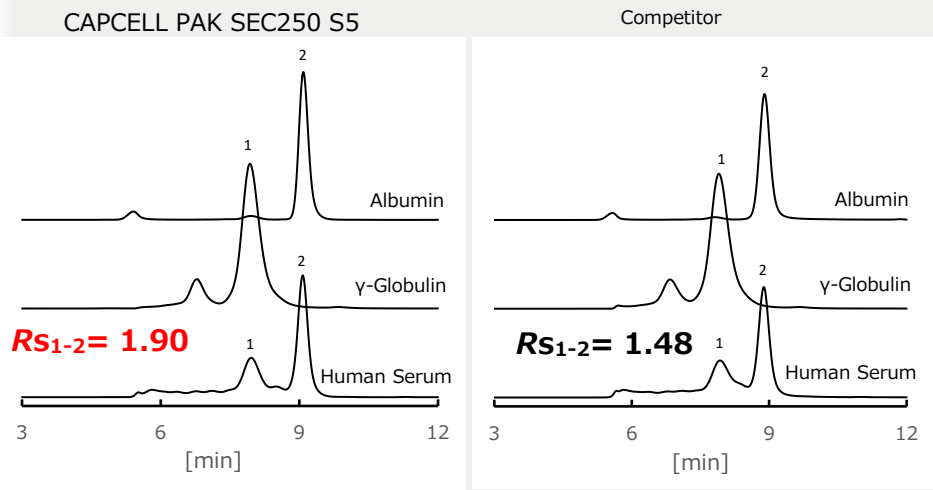
Protein molecular weight characterization



Column : CAPCELL PAK SEC250 S2 ; 4.6 mm i.d. x 300 mm
 Mobile phase : 100 mmol/L Phosphate buffer
 + 0.1 mol/L Na₂SO₄ (pH 6.7) + 0.05% NaN₃
 Flow rate : 0.35 mL/min
 Temperature : 25 °C
 Detection : UV 280 nm
 Inj. vol. : 10 µL
 Sample : Proteins
 1 : Thyroglobulin (670,000 Da)
 2 : γ-Globulin dimer (312,000 Da)
 3 : γ-Globulin (156,000 Da)
 4 : Ovalbumin (43,000 Da)
 5 : Ribonuclease A (13,700 Da)
 6 : p-Aminobenzoic acid (137 Da)

Excellent separation of high- and low-molecular-weight proteins

Separation of serum proteins



Column size : 7.8 mm i.d. x 300 mm
 Mobile phase : 100 mmol/L Phosphate buffer
 + 0.1 mol/L Na₂SO₄ (pH 6.7) + 0.05% NaN₃
 Flow rate : 1 mL/min
 Temperature : 25 °C
 Detection : UV 280 nm
 Inj. vol. : 20 µL
 Sample : 1. γ-Globulin 1 mg/mL
 2. Albumin 1 mg/mL

Superior resolution compared with competitive SEC columns

Product Lineup

Product code	Product name	Particle size (µm)	I.D. (mm)	Length (mm)
82111	CAPCELL PAK SEC125 (S2) 4.6 x 150 mm	2	4.6	150
82112	CAPCELL PAK SEC125 (S2) 4.6 x 300 mm	2	4.6	300
82135	CAPCELL PAK SEC125 (S5) 7.8 x 300 mm	5	7.8	300
82145	CAPCELL PAK SEC125 (S10) 7.8 x 300 mm	10	7.8	300
82211	CAPCELL PAK SEC250 (S2) 4.6 x 150 mm	2	4.6	150
82212	CAPCELL PAK SEC250 (S2) 4.6 x 300 mm	2	4.6	300
82235	CAPCELL PAK SEC250 (S5) 7.8 x 300 mm	5	7.8	300
82245	CAPCELL PAK SEC250 (S10) 7.8 x 300 mm	10	7.8	300
82535	CAPCELL PAK SEC1000 (S5) 7.8 x 300 mm	5	7.8	300